

PROJECT DESCRIPTION

I. GENERAL

This project involves the modification of an existing Traffic Control Signal at the intersection of MD 165 (Pylesville Rd) and MD 136. A firehouse Hazard Identification Beacon will be installed on the northbound approach of MD 165 (Pylesville Rd). Opticom detection shall also be installed on this approach as well as in front of the Volunteer Fire Station. MD 165 (Pylesville Rd) is assumed to run in a north - south direction.

II. INTERSECTION OPERATION

- The intersection shall continue to operate in a NEMA six-phase, semi-actuated mode, with the MD 165 (Pylesville Rd) approaches running concurrently. The Exclusive /Permissive left turn phases on MD 165 (Pylesville Rd) shall remain in operation. The MD 136 approaches shall continue to operate concurrently. A Hazard Identification Beacon shall be added on the south leg of MD 165 (Pylesville Rd) and shall flash when emergency vehicles are detected. by the opticom eye in front of the Fire Station. A new Pre-emption phase for the northbound approach of MD 165 (Pylesville Rd) shall be installed.
- Opticom interface shall be installed in the existing pole-mounted cabinet.

III. SPECIAL NOTES

- The Contractor shall be responsible for terminating all signal cables, to the appropriate terminals and shall properly label each cable.
- All controller cabinet wiring will be performed by the S.H.A. Signal Shop. Contact Mr. Ed Rodenhizer at (410) 787-7652 seventy-two hours in advance of intended work.
- All underground and overhead utilities shown on these plans are schematic only and may not be complete. The Contractor shall be responsible for notifying Miss Utility prior to construction so that all utilities may be located in the field. If the Contractor perceives that a conflict between the utilities and the traffic signal will occur, the Contractor shall notify the Project Engineer immediately so that the conflict may be resolved.

The contact persons for District #4 are as follows:

Mr. Randall Scott
Assistant District Engineer - Traffic
Phone: (410) 321-2781

Mr. Steve Marciszewski
Assistant District Engineer - Maintenance
Phone: (410) 321-2761

Mr. Michael Pasquariello
Assistant District Engineer - Utility
Phone: (410) 321-2841

Mr. Richard L. Daff, Sr.
Chief, Traffic Operations Division
Phone: (410) 787-7630

Mr. Ed Rodenhizer
Signal Shop
410-787-7652

Mr. Sonny Bailey
Sign Shop
410-787-7670

EQUIPMENT LIST

A. EQUIPMENT TO BE SUPPLIED BY S.H.A.

ITEM NO.	DESCRIPTION	QUANTITY
9030	60' (Butt Section Only) mast arm with 27' pole. (Contractor shall supply anchor bolts)	1 EA
9571	Sheet aluminum signs to consist of: (mast arm or pole mount)	65 SF
	W96-7 "WATCH FOR EMERGENCY VEHICLES WHEN FLASHING" sign. (54"x174")	1 EA

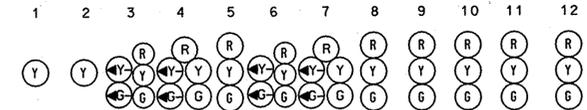
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

ITEM NO.	DESCRIPTION	QUANTITY
1001	Maintenance of traffic per assignment.	2 EA
2002	Test Pit Excavation	2 C.Y.
8001	12" LED signal head section.	2 EA
8005	Discriminator module, 4 channel #764. (opticom)	1 EA
8006	Opticom emitter system 700 series.	3 EA
8011	Breakaway pedestal pole (14')	1 EA
8021	4 conductor opticom cable.	1280 L.F.
8024	Schedule 80 rigid PVC conduit up tp 4" - bored.	190 L.F.
8026	Schedule 80 rigid PVC conduit up tp 4" - trenched.	1215 L.F.
8030	Concrete for signal foundation.	4 CY
8033	No. 6 AWG stranded bare copper ground wire.	40 L.F.
8044	Furnish and install electrical handhole.	8 EA
8046	Install overhead sign.	65 SF
8048	Opticom #721 detector eye.	2 EA
8052	Ground rod 3/4" dia. x 10' length.	2 EA
8061	Electrical cable - 7 conductor (No. 14 AWG).	1940 L.F.
8064	Install steel pole and single 60' (Butt section only) mast arm.	1 EA

C. EQUIPMENT TO BE REMOVED

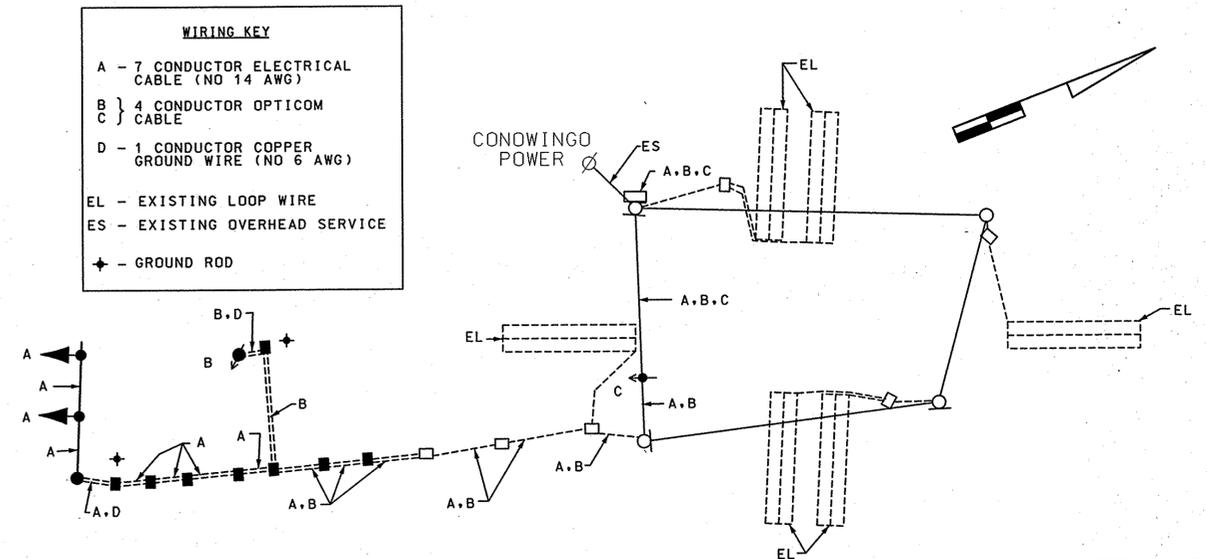
There is no signal equipment to be removed for this project.

PHASE CHART



	1	2	3	4	5	6	7	8	9	10	11	12		
PHASE 1 & 5	DARK	DARK	+G-/R	+G-/R	R	+G-/R	+G-/R	R	R	R	R	R	R	↑
CHANGES TO 1 & 6, 2 & 5, OR 2 & 6														↑
PHASE 1 & 6	DARK	DARK	+G-/G	+G-/G	G	R	R	R	R	R	R	R	R	↑
1 & 6 CHANGE	DARK	DARK	+Y-/G	+Y-/G	G	R	R	R	R	R	R	R	R	↑
PHASE 2 & 5	DARK	DARK	R	R	R	+G-/G	+G-/G	G	R	R	R	R	R	↑
2 & 5 CHANGE	DARK	DARK	R	R	R	+Y-/G	+Y-/G	G	R	R	R	R	R	↑
PHASE 2 & 6	DARK	DARK	G	G	G	G	G	G	R	R	R	R	R	↑
2 & 6 CHANGE	DARK	DARK	Y	Y	Y	Y	Y	Y	R	R	R	R	R	↑
PHASE 4 & 8	DARK	DARK	R	R	R	R	R	R	G	G	G	G	G	↑
4 & 8 CHANGE	DARK	DARK	R	R	R	R	R	R	Y	Y	Y	Y	Y	↑
PRE EMPT 1	FL/Y	FL/Y	G	G	G	R	R	R	R	R	R	R	R	↑
PRE EMPT 1 CHANGE	DARK	DARK	Y	Y	Y	R	R	R	R	R	R	R	R	↑
FLASHING OPERATION	DARK	DARK	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	↑

WIRING DIAGRAM



TOD NO: AT936-05
SHA No.: HA336A51/C51
MD 165 @ Whiteford VFS and MD 136

STATE OF MARYLAND
DEPARTMENT OF TRANSPORTATION
STATE HIGHWAY ADMINISTRATION
MD 165 @ MD 136 /
WHITEFORD VOLUNTEER FIRE STATION CO. #6
WHITEFORD, MARYLAND

GENERAL INFORMATION SHEET			
SCALE	NONE	DATE	2-9-07
CONTRACT NO.	AT9365185		
DESIGNED BY	J.W. ALLEN	COUNTY	HARFORD
DRAWN BY	R.C.	LOGMILE	12165018.00
CHECKED BY		TIMS NO.	H498
F.A.P. NO.		TOD NO.	
TS NO.	4546	DRAWING NO.	2 OF 2
SHEET NO.	OF		

